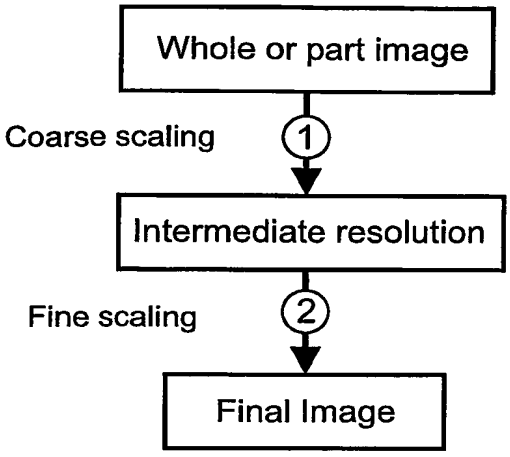
Whole or part image
Coarse scaling
1
Intermediate resolution
Fine scaling
2
Final Image

Fig. 1

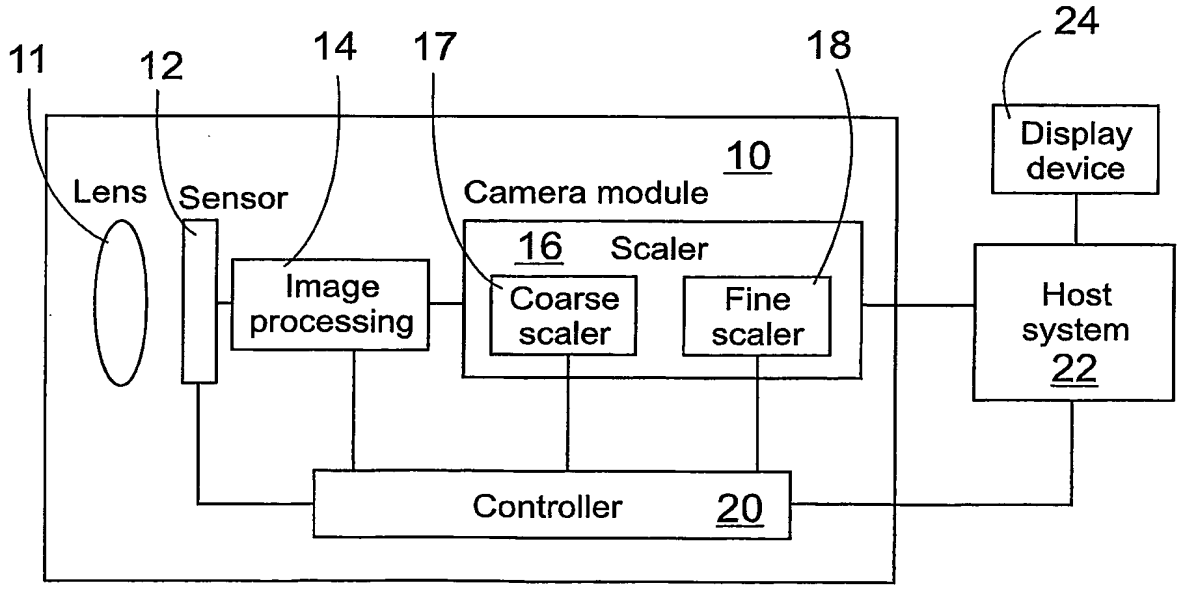
11
12
14
17
18
24
Lens
Sensor
Image processing
10
Camera module
16 Scaler
Coarse scaler
Fine scaler
Display device
Host system 22
Controller 20

Fig. 2a

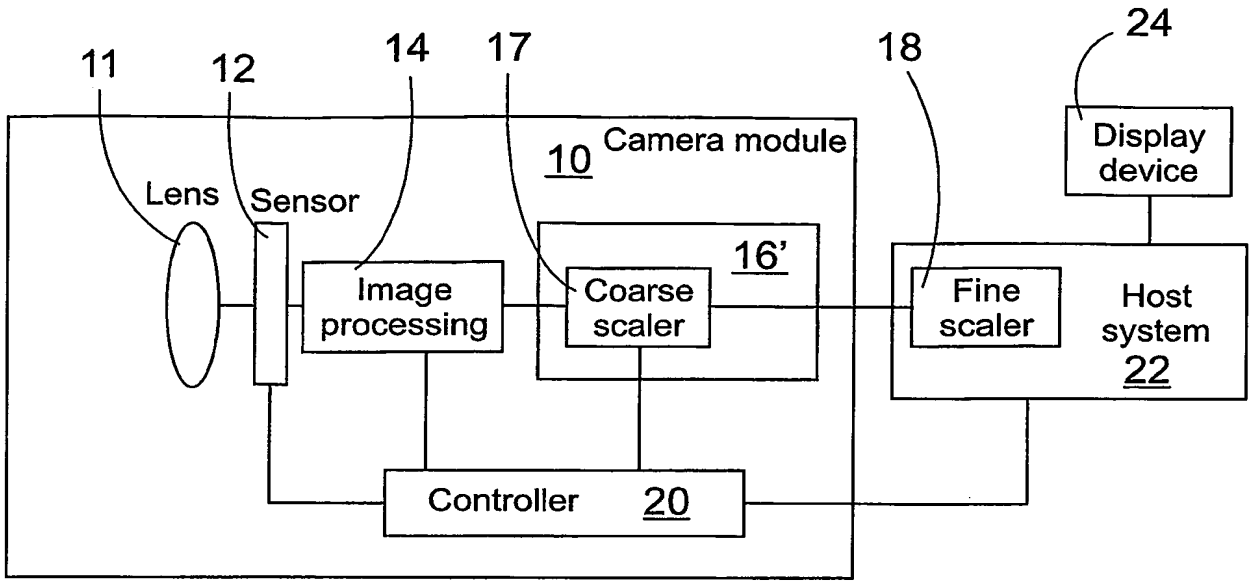
11
12
14
17
18
24
Camera module
10
Lens
Sensor
Image processing
16'
Coarse scaler
Fine scaler
Host system
22
Display device
Controller
20

Fig. 2b

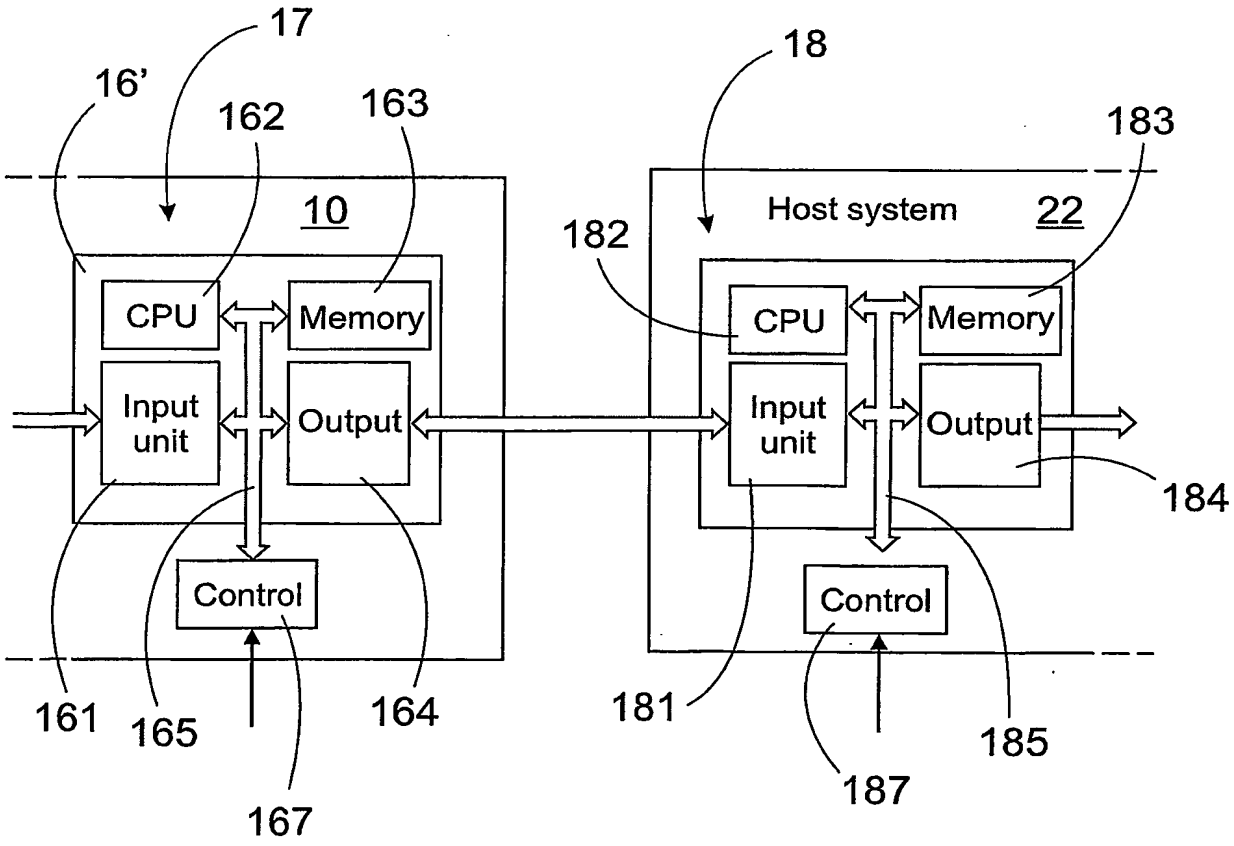
17
16'
162
163
18
183
10
Host system
22
182
CPU
Memory
Input unit
Output
CPU
Memory
Input unit
Output
184
Control
Control
161
165
164
181
185
187
167

Fig. 2c

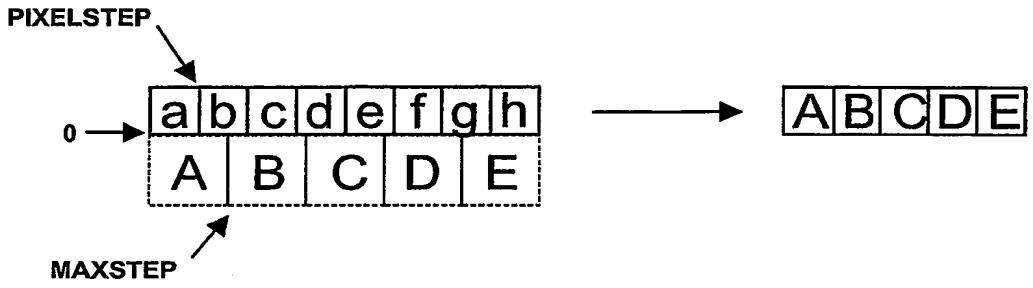
PIXELSTEP
0
a b c d e f g h
A B C D E
MAXSTEP
A B C D E

Fig. 3

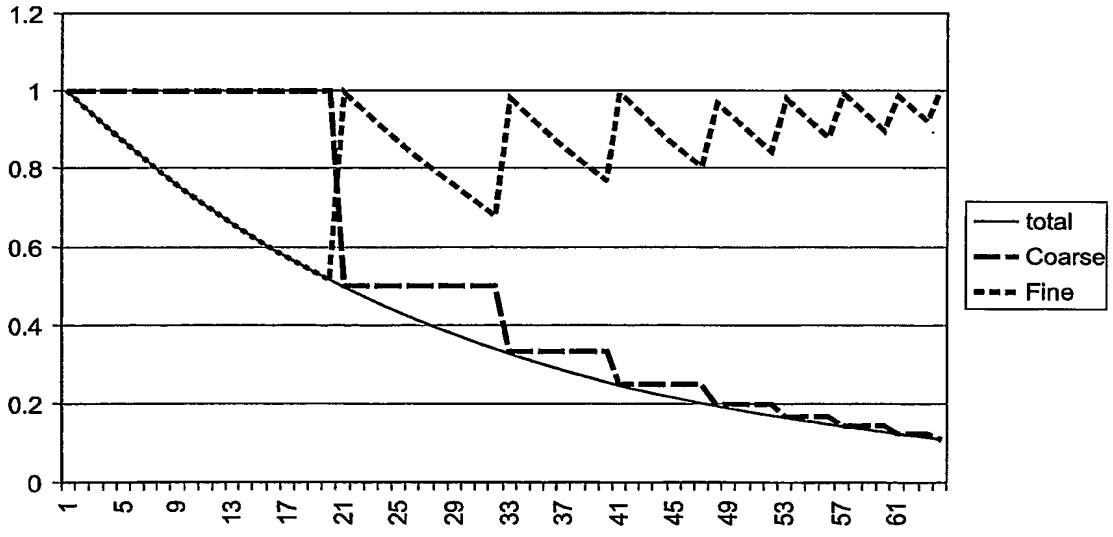
1.2
1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
total
Coarse
Fine

Fig. 4a

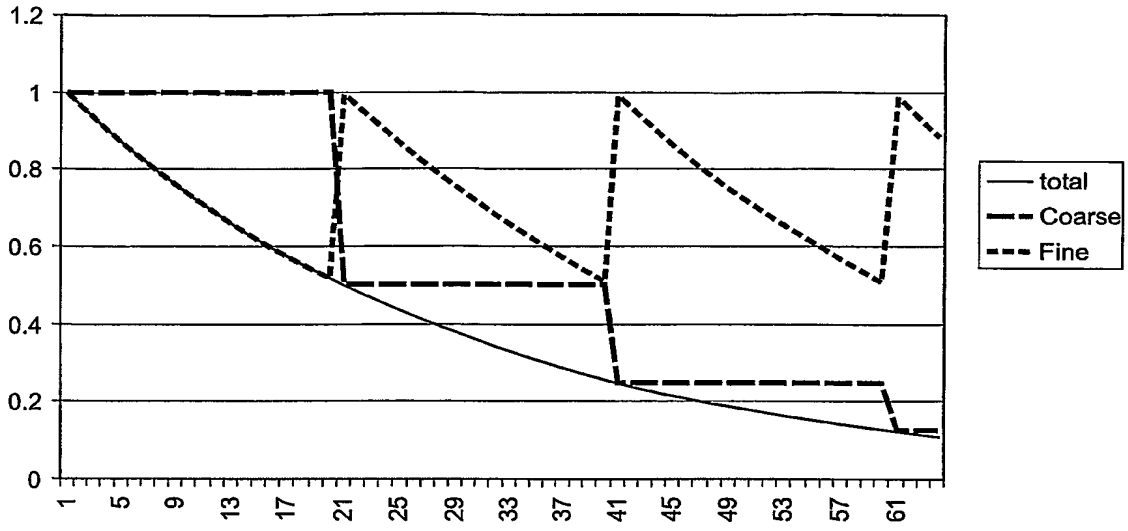
1.2
1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
total
Coarse
Fine

Fig. 4b

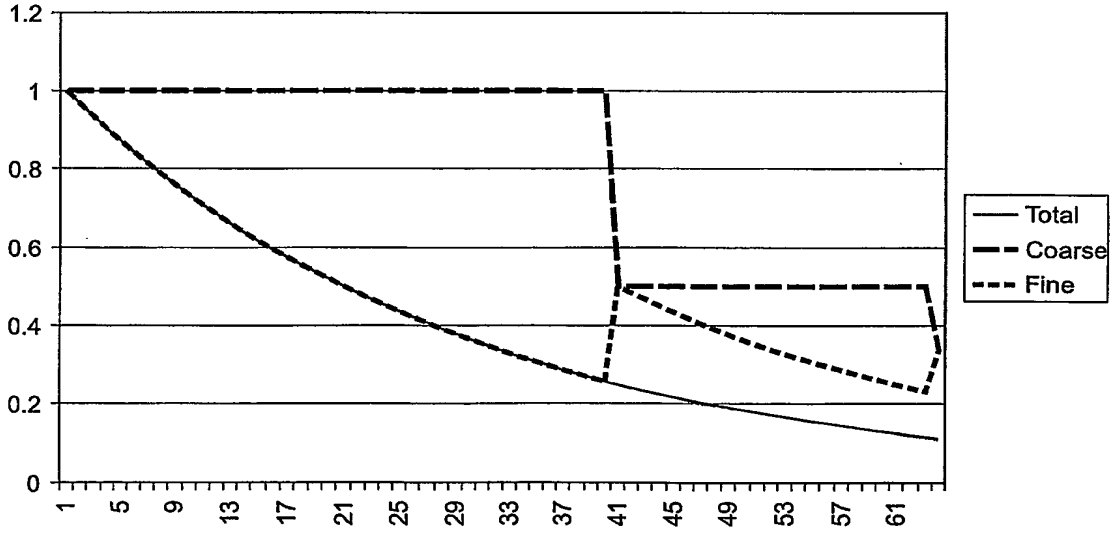
1.2
1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
Total
Coarse
Fine

Fig. 4c